

fueled these chemical reactions, it was enough to eliminate the possibility that fusion could occur, they said.

The new findings suggest sound-triggered fusion is improbable in highly volatile fluids like acetone or water, Suslick said. However, "the possibility of fusion occurring in low volatility fluids, such as liquid metals and molten salts, cannot be ruled out at this time."

Tabletop fusion may be out of reach, but "there are other uses for sonoluminescent bubbles," said physicist Detlef Lohse of the University of Twente in Entschede, The Netherlands. For example, now that scientists understand the chemical processes of sonoluminescence more thoroughly, they might be able to harness it for applications in medicine and industry.

Suslick noted sonoluminescence is already helping to enhance the chemical reactions used to make pharmaceuticals. Quoting Russian intellectual Leon Trotsky, Suslick said the research should go "forward in all directions."

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